HISTORIC PROPERTY INVENTORY FORM

HISTORIC PROPERTY INVENTORION SECTION Field Site No. Site Name Historic Common Field Recorder Owner's Name Address City/State/Zip Code PROPERTY INVENTORION 183-NB OAHP No. Clearwell Clearwell Philip M. Bogen, Evaluator: Darby U.S. Department of Energy, Richland P.O. Box 550 City/State/Zip Code Richland, WA 99352	Date Recorded 13-Feb-95 Stapp	Office of A 111 21st A Olympia, V LOCATION SECTION Address City/Town/County/Zip Twp. 14N Range 26E Tax No./Parcel No.	ashington, Department of Community Developmental Commu
Status X Survey/Inventory National Register State Register Determined Eligible Determined Not Eligible Other (HABS, HAER, NHL) Local Designation	Photography Photography Neg. No. Roll 9, Frame 6 (Roll No. & Frame No.) View of South-East Facade Date 14-Feb-94		byote Rapids 7.5 min. series Easting 303974 Northing 5172485 Buildings
Classification District Site NR SR Contributing Non-Contributi District/Thematic Nomination Nar Hanford Site N			
Description Section Materials & Features/Structural Types Building Type Industrial Plan Rectangular Structural System No. of Stories N/A Cladding (outside Wall Surface)	Roof Type Gable Hip Flat Pyramidal Monitor Other (specify) Gambrel Shed		
Cladding (exterior Wall Surfaces Log Horizontal Wood Siding Rustic/Drop Clapboard Wood Shingle Board and Batten Vertical Board Asbestos/Asphalt Brick Stone Stucco	Roof Material Wood Shingle Wood Shake Composition Slate Tar/Built-up Tile Metal (specify X Other (specify Concrete Not visible	High Styles/Forms (Check one of Greek Revival	r more of the following) Spanish Colonial Revival/Mediterranean Tudor Revival
Terra Cotta X Concrete/Concrete Block Vinyl/Aluminum Siding Metal (specify) Other (specify) (Include detailed description in Description of Physical Appe	Foundation Log Concrete Post & Pier Block Stone X Poured Brick Other (specify) Not visible Parance) Slight Moderate Extensive	Gothic Revival Italianate Second Empire Romanesque Revival Stick Style Queen Anne Shingle Style Colonial Revival Beaux Arts/Neoclassical Chicago/Commercial Style American Foursquare Mission Revival	Tudor Revival Craftsman/Arts & Crafts Bungalow Prairie Style Art Deco/Art Moderne Rustic Style International Style Northwest Style Commercial Vernacular Residential Vernacular (see below) X Other (specify) Industrial Vernacular
Changes to brain Changes to windows Changes to original cladding Changes to interior Other (specify)		Vernacular House Types Gable Front Gable Front and Wing Side Gable	Cross Gable Pyramidal/Hipped Other (specif

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

Agriculture	Conservation	Politics/Government/Law	
Architecture/Landscape Architecture	Education	Religion	
Arts	Entertainment/Recreation Science & Engineering		
Commerce	Ethnic Heritage (specify)	Social Movements/Organizations	
Communications	Health/Medicine	Transportation	
Community Planning/Development	Manufacturing/Industry	X Other (specify) Manhattan Project & Cold War Era	
	Military	X Study Unit Sub-Theme(s) (specify)	
		Cold War/Nuclear Fuel Production	
Statement of Significance		Reactor Operations, Water Treatment	
Data of Construction 4062 4064	Architect/Engineer/Puilder Congrel Floatric		
Date of Construction 1963-1964	Architect/Engineer/Builder General Electric		
X In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.			
X In the opinion of the surveyor, this property is locate	ed in a potential historic district (National and/or local).		

The 183-NB Clearwell is part of the 183-N Water Filter Plant complex, which supplied the filtered water for the demineralized water system and the potable water system at the 100-N Area. Raw water from the 182-N High Lift Station was pumped to the 183-NA Pumphouse where it was treated with chlorine gas (a biocide) and alum (a coagulant) in a mixing tank. From there, it was piped to a coagulator, where a polyelectrolyte was added as a coagulation aid, and then piped to the sand filters in the 183-N Building where filtration took place. The filtered water was pumped to the 183-NB Clearwell and eventually to the 850,000-gal filtered-water storage tank. This system supplied water for the following uses: horizontal control rod backup cooling, fuel-element storage basin cooling and cleanup, area service water, potable water system, and demineralization plant influent.

This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of important information. However, the 183-NB Clearwell qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and its contribution to Reactor Operations, specifically the Water System. Therefore, it is the conclusion of the U.S. Department of Energy that the 183-NB Clearwell is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 183-NB Clearwell is a buried, rectangular, reinforced concrete structure with only the top surface visible 1 ft (0.3 m) above grade. The underground water basin has the capacity of 200,000 gal (757,120 L) and there are several pumps and associated control equipment mounted on top of the above ground concrete surface. The three clearwell pumps have a design rating of 7,500 gal/min (28,392 L/min) at an 80-ft (7.4-m) head available to pump filtered water from the Clearwell to the Filtered Water Storage Tank. No significant changes have been made to this structure and it is still in use.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

Major Bibliographic References

Bechtel Hanford, Inc. 1994. "Pre-Existing" Conditions Survey of Hanford Site Facilities to be Managed by Bechtel Hanford, Inc. BHI-00221, Rev. 00, Phase II.

Newell Smith, Engineer, Columbia Energy & Environmental Services, Inc. Rollie Warner, Engineer, Columbia Energy & Environmental Services, Inc.